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ABSTRACT OF THE DISCLOSURE

The invention is related to a method and a device in the drying section of a paper machine for reducing the tendency of the paper to curl. The paper web is dried on drying cylinders, 5 against whose heated faces the paper web is pressed by means of a drying wire. In the drying section, groups of drying cylinders are used, in which twin-wire draw and/or single-wire draw is/are applied. In the drying section, hot water steam is fed substantially onto the entire width of the paper web, by means of 10 which steam tensions that have been formed or that tend to be formed in the fiber mesh in the paper web are relaxed by means of heat and moisture in the area of their formation or substantially immediately thereafter. Moreover, the transverse curling profile and/or moisture profile of the paper web can be controlled by the 15 steam treatment.